

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1499074

Luminaire Tested: MAE-G-4-120-1LO-STD-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1LO-STD-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

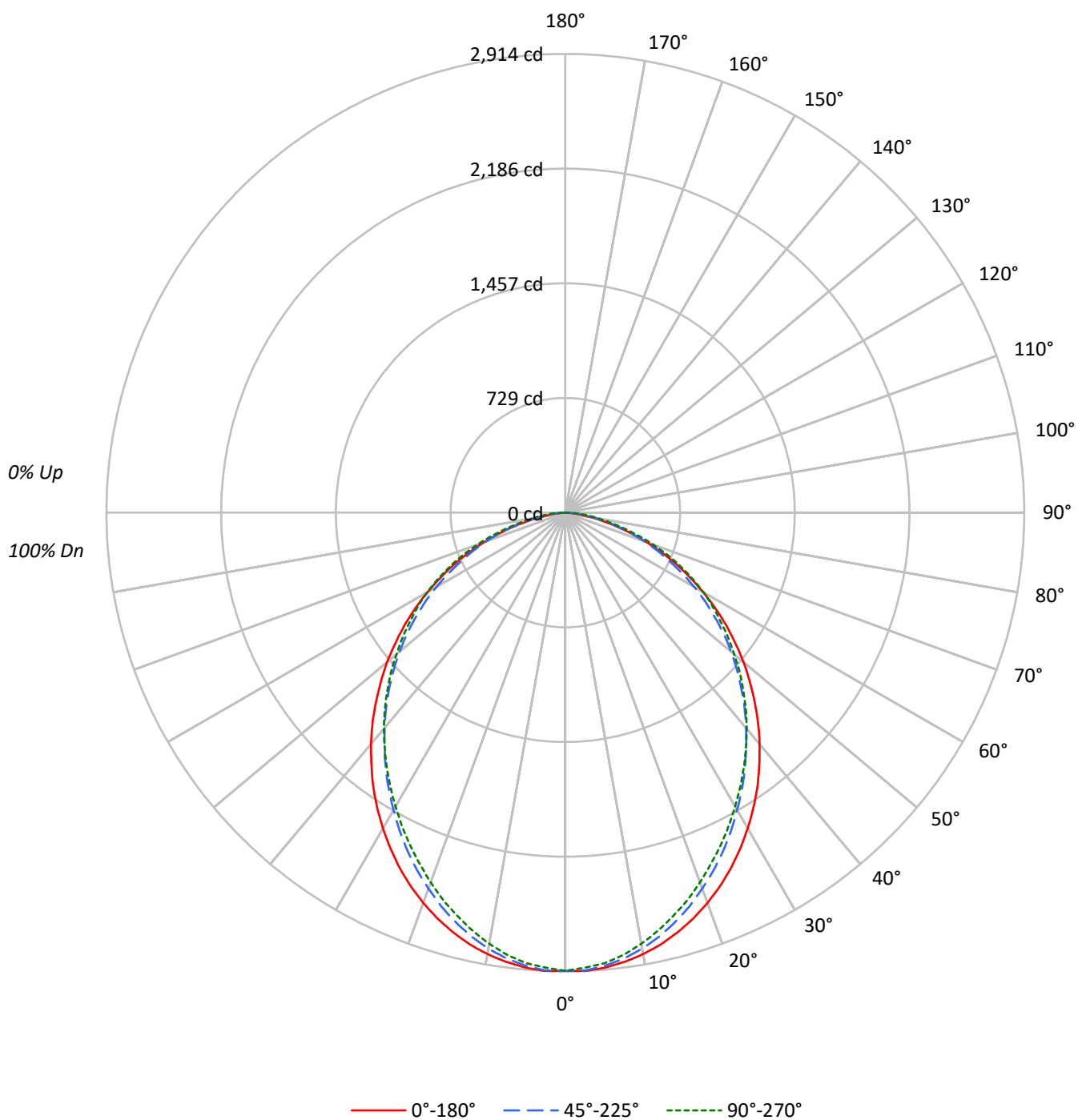
Lumens per Lamp: N/A
Luminaire Lumens: 6922.0 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1499074

CATALOG NUMBER: MAE-G-4-120-1LO-STD-50-90-VRDCPH

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3917	3917	3917
5°	3918	3902	3880
10°	3891	3842	3799
15°	3843	3751	3693
20°	3778	3639	3578
25°	3696	3520	3462
30°	3598	3389	3349
35°	3492	3265	3245
40°	3371	3136	3147
45°	3236	3009	3040
50°	3091	2875	2930
55°	2923	2721	2819
60°	2717	2545	2728
65°	2477	2325	2566
70°	2154	2108	2334
75°	1724	1828	1988
80°	1199	1458	1646
85°	673	1144	1518

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3236 cd/sqm

TEST NUMBER: P1499074

CATALOG NUMBER: MAE-G-4-120-1LO-STD-50-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	3.9
10°-20°	759.4	11.0
20°-30°	1099.8	15.9
30°-40°	1262.2	18.2
40°-50°	1246.1	18.0
50°-60°	1064.9	15.4
60°-70°	754.7	10.9
70°-80°	376.2	5.4
80°-90°	85.7	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2132.2	30.8
0°-40°	3394.5	49.0
0°-60°	5705.5	82.4
0°-90°	6922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2901	2899	2889	2866	2873	275
15°	2759	2741	2693	2649	2651	777
25°	2489	2447	2371	2329	2332	1146
35°	2126	2067	1988	1967	1976	1328
45°	1700	1644	1581	1587	1598	1312
55°	1246	1194	1160	1181	1202	1112
65°	778	737	730	783	806	770
75°	332	314	352	379	382	358
85°	44	54	74	91	98	62
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-1LO-STD-50-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2910.9	2910.9	2910.9	2910.9	2910.9
2.5°	2914.2	2916.9	2910.9	2888.0	2892.7
5°	2901.2	2898.9	2889.2	2866.3	2873.0
7.5°	2878.3	2873.8	2856.4	2828.7	2832.9
10°	2847.8	2838.9	2812.4	2777.6	2780.6
12.5°	2808.3	2795.8	2758.2	2717.7	2720.4
15°	2759.0	2741.2	2692.7	2648.7	2651.0
17.5°	2702.4	2681.3	2621.8	2574.0	2580.2
20°	2638.3	2610.2	2541.3	2494.8	2499.1
22.5°	2567.5	2532.4	2459.4	2413.3	2415.4
25°	2489.4	2447.3	2370.9	2329.0	2332.0
27.5°	2405.5	2358.8	2279.0	2239.5	2245.5
30°	2315.8	2265.2	2181.1	2149.3	2155.8
32.5°	2223.4	2169.2	2085.6	2060.2	2066.6
35°	2126.2	2067.3	1987.5	1967.0	1975.6
37.5°	2022.3	1965.2	1885.6	1876.2	1883.9
40°	1919.1	1860.1	1785.4	1781.6	1791.8
42.5°	1811.8	1754.2	1684.6	1685.0	1697.1
45°	1700.4	1644.2	1581.4	1586.7	1597.9
47.5°	1588.1	1532.9	1478.4	1487.1	1501.6
50°	1476.7	1423.0	1373.6	1387.2	1399.8
52.5°	1359.1	1308.2	1268.4	1283.8	1302.2
55°	1246.0	1194.3	1160.1	1181.2	1201.8
57.5°	1128.7	1084.5	1054.0	1082.6	1109.6
60°	1009.8	966.6	945.8	986.6	1013.8
62.5°	893.0	851.0	836.5	888.3	910.0
65°	778.1	737.2	730.4	782.9	806.1
67.5°	663.5	626.6	633.5	687.0	703.5
70°	547.5	514.2	535.9	583.0	593.2
72.5°	437.8	410.3	443.8	480.1	484.9
75°	331.6	314.0	351.6	378.8	382.5
77.5°	237.8	228.4	265.2	286.3	290.9
80°	154.7	158.0	188.2	205.9	212.4
82.5°	90.5	99.2	123.4	145.8	152.5
85°	43.6	54.0	74.1	91.0	98.3
87.5°	15.0	22.0	31.2	34.7	33.7
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.57	17.15	15.93	17.46	17.78	15.54	17.13	15.91	17.44	17.76
	3H	17.03	18.45	17.41	18.78	19.14	17.25	18.67	17.62	19.00	19.36
	4H	17.46	18.80	17.86	19.15	19.53	17.80	19.14	18.20	19.49	19.86
	6H	17.69	18.93	18.10	19.30	19.69	18.15	19.39	18.56	19.76	20.15
	8H	17.73	18.91	18.15	19.30	19.70	18.26	19.44	18.69	19.83	20.23
	12H	17.73	18.87	18.16	19.25	19.68	18.34	19.47	18.77	19.85	20.28
4H	2H	16.06	17.40	16.46	17.75	18.13	16.05	17.38	16.44	17.73	18.11
	3H	17.72	18.83	18.13	19.23	19.63	17.96	19.07	18.37	19.47	19.87
	4H	18.24	19.24	18.67	19.66	20.09	18.63	19.63	19.06	20.05	20.49
	6H	18.55	19.42	19.00	19.86	20.32	19.09	19.97	19.55	20.41	20.87
	8H	18.61	19.42	19.07	19.87	20.33	19.24	20.06	19.70	20.50	20.97
	12H	18.63	19.36	19.11	19.84	20.31	19.36	20.10	19.84	20.57	21.04
8H	4H	18.47	19.29	18.93	19.73	20.20	18.82	19.64	19.28	20.09	20.55
	6H	18.85	19.53	19.35	20.02	20.49	19.38	20.06	19.87	20.55	21.02
	8H	18.94	19.55	19.46	20.06	20.55	19.59	20.20	20.10	20.70	21.19
	12H	19.00	19.54	19.51	20.03	20.59	19.78	20.31	20.28	20.80	21.37
12H	4H	18.49	19.22	18.97	19.70	20.17	18.82	19.56	19.31	20.03	20.50
	6H	18.88	19.49	19.39	20.00	20.48	19.39	20.00	19.90	20.50	20.99
	8H	19.02	19.55	19.52	20.04	20.61	19.65	20.18	20.15	20.67	21.24